

II. AMENDMENTS TO THE SPECIFICATION

--- The location of each paragraph to be deleted or replaced, and where the new paragraph or section is to be added, is set forth unambiguously below. A marked-up version of any replacement paragraph is provided. The text of new paragraphs or sections is not underlined. Any amendment (if any) to the abstract is treated as any other amendment to the specification.

- THE SPECIFICATION OF THE PATENT IS HEREBY AMENDED AS SET FORTH BELOW:

- *There are no amendments to the specification.*

III. AMENDMENTS TO THE CLAIMS

- PLEASE FIND BELOW A MARKED VERSION OF CLAIMS WITH PRESENT STATUS DELINEATED
 - THE CLAIMS ARE HEREIN AMENDED, CANCELED, OR ADDED TO, SO AS TO EVENTUATE IN THE NEW SET OF PENDING CLAIMS INDICATED BELOW. THIS LISTING OF CLAIMS WILL REPLACE ALL PRIOR VERSIONS AND LISTING OF CLAIMS IN THE APPLICATION.

-- The status of each claim is indicated after the claim number by use of a parenthetical identifier selected from: (Original), (Currently amended), (Canceled), (Withdrawn), (Withdrawn – currently amended), (Previously presented), (New), and (Not entered). Claim text is provided for each claim in the listing except for the claims status “canceled” or “not entered.” Only claims having the status of “Currently amended” or “Withdrawn – currently amended” include markings to indicate changes that have been made relative to the immediate prior version of the claims. The text of any deleted matter is shown by strike-through, except that double brackets placed before and after deleted characters of five or fewer consecutive characters may be used. The text of any added subject matter is shown by underlining the added text. Claims that were previously canceled that are reinstated here, if any, are reinstated by adding the claim as a “(New)” claim with a new claim number.

COMPLETE LIST OF CLAIMS THAT ARE OR HAVE BEEN BEFORE THE OFFICE AFTER ENTRANCE OF THE AMENDMENTS MADE HEREIN

1. **(ORIGINAL)** An opto-electronic video compression system, comprising: a lens element for transmitting light of an image and having one or more lenses, each lens having a predetermined focal length; a sensor array including a first sensor for receiving focused light from the lens element and a second sensor for receiving defocused light from the lens element, wherein the first sensor includes $X \times Y$ pixels and samples the focused light at each of the $X \times Y$ pixels, and the second sensor includes $X/2 \times Y/2$ pixels and samples the defocused light at each of the $X/2 \times Y/2$ pixels; and an electronic differencing element in communication with the first and second sensor for differencing the coefficients of co-located pixels.

2. **(ORIGINAL)** The opto-electronic video compression system of claim 1, wherein the lens element includes a single lens, and further including a beam splitter between the lens element and the sensor array for transmitting a first percentage of the light from the image to the first sensor and a second percentage of the light from the image to the second sensor.

3. **(ORIGINAL)** The opto-electronic video compression system of claim 1, wherein the lens element includes a single collimated lens, further including a beam splitter between the lens element and the sensor array for transmitting a first percentage of the light from the image to the first sensor and a second percentage of the light from the image to the second sensor, and further including a first lens between the beam splitter and the first sensor for providing the focused light on the first sensor, and a second lens between the beam splitter and the second sensor for providing the defocused light on the second sensor.

4. **(ORIGINAL)** The opto-electronic video compression system of claim 1, wherein the sensor array is a stepped array.

5. **(CANCELED)**

6. **(ORIGINAL)** The opto-electronic video compression system of claim 1, wherein the lens element includes multiple lenses.

7. **(ORIGINAL)** The opto-electronic video compression system of claim 6, wherein each lens has the same focal length and the sensor is a stepped sensor.

8. **(ORIGINAL)** The opto-electronic video compression system of claim 6, wherein each lens has different focal lengths and the sensor is a planar sensor.

9. **(ORIGINAL)** The opto-electronic video compression system of claim 1, further including an electronic quantizing element in communication with the electronic differencing element for dividing coefficients received from the electronic differencing element by a predetermined quantizer coefficient.

10. **(ORIGINAL)** The opto-electronic video compression system of claim 9, wherein the quantizer coefficient is programmable.

11. **(ORIGINAL)** The opto-electronic video compression system of claim 9, wherein the electronic quantizing element is a programmable attenuation circuit.

12. **(ORIGINAL)** The opto-electronic video compression system of claim 9, further including a model in communication with the electronic quantizing element and a second electronic differencing element in communication with the electronic quantizing element and the model for calculating the difference between a coefficient and a co-located coefficient from the model.